

# CONTROL VALVES



## TECH-EE SERIES CONTROL VALVES RESIDENTIAL APPLICATIONS WITH 1 INCH INTERNAL PORTING



SHOWN WITH OPTIONAL BYPASS

- Service flow rate 27 gpm, backwash flow rate 27 gpm
- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until next regeneration, volume remaining, current flow rate, and total volume used (totalizer)
- Four methods to initiate regeneration: meter immediate, meter delayed, time clock delayed, or pressure differential
- Optional double backwash feature offers optimum regeneration, cleaning ability, and efficiency
- Fully adjustable cycle times with 6-cycle control delivers controlled backwash, downflow brining/slow rinse, second backwash, fast rinse, refill, and downflow service
- Coin cell lithium battery backup with an eight hour carry over
- Backwash and brining ability to 21 inch diameter tanks
- Downflow or upflow brining regeneration
- Level VI 15-volt output DC power supply provides safe and easy installation
- Post treated water regenerant refill
- Patented one piece expanding seal spacer stack assembly U.S. Patent 6,402,944
- Patented linearly reciprocating piston operation U.S. Patent 6,444,127
- Reliable and proven DC drives
- Compatible with the following typical concentration of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine, and chloramines
- Certified to NSF/ANSI 44, 61, and 372

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### SPECIFICATIONS

Inlet/Outlet Fittings	3/4 to 1-1/2 inch NPS
Cycles	Up to 6
Valve Material	Noryl <sup>1</sup> or equivalent
Regeneration	Downflow

### FLOW RATES

Service @15 psi drop (includes bypass and meter)	27 gpm
Backwash @ 25 psi drop (includes bypass)	27 gpm
Cv Service	7.0
Cv Backwash	5.4

### OPERATING PRESSURES

Minimum/Maximum	20 to 125 psi
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### OPERATING TEMPERATURES

Minimum/Maximum	40 to 110° F
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### METER

Accuracy	± 5%
Flow Rate Range	0.25 to 27 gpm
Gallon Range	20 to 1,500,000 gallons
Totalizer	1,000 to 9,999,000 gallons

### DIMENSIONS & WEIGHT

Distributor Pilot	1.050 inch OD pipe (3/4 inch NPS)
Drain Line	3/4 or 1 inch MNPT
Brine Line	3/8 or 1/2 inch OD poly tube compression
Mounting Base	2.5"-8 NPSM
Height from Top of Tank	7-3/8 inch
Weight	4.5 lb

### ELECTRICAL SPECIFICATIONS (Power Supply)

	USA	International
Supply Voltage	100 VAC to 120 VAC	200 VAC to 240 VAC
Supply Frequency	50/60 Hz	50/60 Hz
Output Voltage	15 VDC	15 VDC
Output Current	500 mA	500 mA

### TANK APPLICATIONS

Water Softener	6 to 21 inch diameter
Water Filter <sup>2</sup>	6 to 16 inch diameter

### CYCLES OF OPERATION (Softener / Filter Downflow)

Cycle	Softener	Filter
1. Backwash 1st (upflow)	1 to 95 minutes	1 to 95 minutes
2. Regenerate Draw/Slow Rinse (downflow)	1 to 180 minutes	
3. Backwash 2nd (upflow)	1 to 95 minutes	
4. Fast Rinse (downflow)	1 to 95 minutes	1 to 95 minutes
5. Regenerant Refill (in service with treated water)	0.1 to 99.0 or off	
6. Service (downflow)		

### OPTIONS

Backwash Filter, Bypass, Weather Cover

1. Noryl is a trademark of Sabic Innovative Plastics IP B.V. Company.

2. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area.